GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA

UNSTARRED QUESTION NO:4861
ANSWERED ON:24.04.2003
POWER CAPACITY ADDED BY SOLAR ENERGY
NANDIPAKU VENKATASWAMY

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the total power capacity added under Solar Photovoltaic Cells (SPVs) power programme in the country as on December 31, 2002 ;

(b) the number of SPV units set up and total financial assistance given as on December 31, 2002, State-wise ; and

(c) the steps the Government propose to take to popularize the use of SPVs ?

Answer

MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN)

(a) & (b) : The Ministry of Non-Conventional Energy Sources is implementing acountry-wide solar photovoltaic (SPV) programme for generation of electricity from solar energy. Under this programme, installation of different types of SPV systems like solar home systems, street lighting systems, water pumping systems and power plants, etc. is being supported for providing lighting, water pumping and other services and for electrification of remote villages. The Ministry provides central subsidy, soft loan packages and other incentives for the installation of these systems. The solar photovoltaic programme of the Ministry is being implemented through the State renewable energy development agencies, selected NGOs and the Indian Renewable Energy Development Agency (IREDA Limited.

SPV systems are also being used to provide power for applications like rural telephones, battery charging, road and railway signaling and other industrial and commercial applications.

About 10.3 lakh solar photovoltaic systems and power plants of 61 MWp aggregate SPV capacity are estimated to have been installed in the country for different applications as on 31st December 2002. In addition SPV products of 46 MWp capacity were exported.

The state-wise details of SPV systems installed under the Ministry`s Programme till 31.12.2002 are given in Annexure- I.The aggregate SPV capacity of these systems and power plants is about 27.65 MWp.

The state-wise financial assistance released under the solar photovoltaic programmes of the Ministry during 2001-02 and 2002-03 (upto 31st December, 2002) are given in Annexure-II.

(c): The Ministry has taken the following steps to popularize the use of SPV systems & power plants :

1. Provide support for installation of about 56 MWp aggregate capacity of SPV Systems and Power Plants during the Tenth Plan period through capital and interest subsidy schemes, as compared to the installation of about 14 MWp during the Ninth Plan period under the Ministry`s programmes.

2. Implementation of a programme for the electrification of remote villages; about 4,000 villages are expected to be electrified through the use of SPV systems during the Tenth Plan.

3. Mobilization of resources from other programmes such as tribal welfare, drinkingwater supply, MPLAD & MLALAD schemes, etc. to expand use of photovoltaic systems.

4. Providing financial and fiscal incentives to the manufacturers and users like concessional customs duty, exemption from excise duty, and accelerated depreciation.

5. Support for research and development projects aimed at improvements in products and reduction in costs.

ANNEXURE-I

Annexure-I referred to in reply to Parts (a)&(b) of the Lok Sabha Unstarred Question No. 4861 for 24.4.2003

STATE - WISE DETAILS OF SOLAR PHOTOVOLTAIC (SPV) SYSTEMS INSTALLED AS ON 31/12/2002

S.No.	State/UT/Others	Solar Home Lant- erns Systems Nos.	street ligh- ting Systems Nos.	lighing Plants & Other systems Nos.	Power Water Pumping systems kWp	Pumping systems Nos.
1	Andhra Pradesh	27707	1033	3520	296.66	603
2	Arunachal Pradesh	4937	750	738	17.10	1
3	Assam	541	2787	98	7.50	45
4	Bihar	28275	679	490	-	128
5	Chattisgarh	3192	3612	1237	76.65	5
6	Goa	443	51	69	1.72	15
7	Gujarat	31603	2552	1764	24.90	43
8	Haryana	32727	9666	612	24.20	268
9	Himachal Pradesh	20697	10848	1319	1.50	6
10	Jammu & Kashmir	9202	25317	389	40.00	18
11	Jharkhand	16374	102	135	-	6
12	Karnataka	7334	4626	914	48.91	339
13	Kerala	39681	18343	1065	69.74	737
14	Madhya Pradesh	8564	159	5714	361.40	78
15	Maharashtra	8683	721	3388	191.40	189
16	Manipur	3883	650	370	11.00	12
17	Meghalaya	4875	540	593	42.00	5
18	Mizoram	5812	1645	315	-	37
19	Nagaland	95	143	271	6.00	-
20	Orissa	8484	2914	5665	36.52	4
21	Punjab	14495	2520	1666	346.00	1119
22	Rajasthan	4716	34464	6473	75.80	268
23	Sikkim	845	340	127	-	-
24	Tamilnadu	12818	471	2272	237.00	760
25	Tripura	20805	2238	760	24.57	10
26	Uttar Pradesh	52815	50938	550	454.20	234
27	Uttaranchal	27027	37854	250	80.03	10
28	West Bengal	3662	25916	1461	415.00	48
29	A & N Islands	796	405	358	217.00	5
30	Chandigarh	1675	275	-	-	12
31	Dadra & Nagar Haveli	-	-	-	-	1
32	Delhi	4753	-	301	15.00	86
33	Lakshadweep	8455	-	821	735.00	-
34	Pondicherry	637	13	62	-	21
35	Others (NGOs and PSUs)	28197	3295	-	-	-

ANNEXURE - II

Annexure-II referred to in reply to Parts (a)&(b) of the Lok Sabha Unstarred Question No. 4861 for 24.4.2003

STATE - WISE FINANCIAL ASSISTANCE RELEASED UNDER SPV PROGRAMME DURING 2001-02 AND 2002-03 (TILL 31ST DECEMEBR 2002)

(RS. IN LAKHS)

S. NO.	STATE / UT	FINANCIAL ASSISTANCE RELEASED 2001-02	2002-03 (till 31/12/ 2002)
1	Andhra Pradesh	239.41	40
2	Arunachal Pradesh	-	-
3	Assam	1.25	42.5
4	Bihar	-	-
5	Chhattisgarh	249.8	44.3
6	Goa	-	-
7	Gujarat	69.75	70
8	Haryana	170.81	96.75
9	Himachal Pradesh	133.94	99.5
10	Jammu & Kashmir	771.66	19.75
11	Jharkhand	-	18.78
12	Karnataka	106.97	139.77

13 Kerala 838.28 -
14 Madhya Pradesh 32.26 7.5
15 Maharashtra 38.75 41.11
16 Manipur 44.75 44.75
17 Meghalaya 0.6 -
18 Mizoram 19.95 31.33
19 Nagaland - -
20 Orissa 61 -
21 Punjab 157.4 100.51
22 Rajasthan 557.89 412.04
23 Sikkim 36.92 20.9
24 Tamilnadu 53.8 -
25 Tripura 205.4 285.1
26 Uttar Pradesh 775.4 226.92
27 Uttaranchal 257.75 344.55
28 West Bengal 793.05 164.84
29 A & N Islands 60 -
30 Chandigarh 10.53 4.33
31 Delhi 0.83 -
32 Lakshadweep 572.49 98
33 Pondicherry 3.78 1.67
34 Others (NGOs & PSUs) 281.3 32.60